	Application No.	Applicant(s)
	40/040 005	LIET AL
Notice of Allowability	10/812,695 Examiner	LI ET AL. Art Unit
	Christopher R. Magee	2627
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>telephone interview on 09/15/2006</u> .		
2. The allowed claim(s) is/are <u>1-10</u> .		
<ul> <li>3.  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some* c) None of the:</li> <li>1.  Certified copies of the priority documents have been received.</li> </ul>		
2. Certified copies of the priority documents have been received in Application No		
3.  Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)	_	
1. Notice of References Cited (PTO-892)	5. Notice of Informal P	• •
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ⊠ Interview Summary Paper No./Mail Dat	
3. ☑ Information Disclosure Statements (PTO/SB/08),	7. 🛭 Examiner's Amendr	
Paper No./Mail Date <u>5/24/2006</u> 4. ☐ Examiner's Comment Regarding Requirement for Deposit	8. X Examiner's Stateme	ent of Reasons for Allowance
of Biological Material	9.  Other	

## **DETAILED ACTION**

## Information Disclosure Statement

1. The information disclosure statement(s) (IDS) submitted on 05/24/2006 is/are in compliance with the provisions of 37 CFR 1.97. Accordingly, the examiner has considered the information disclosure statement.

## Examiner's Amendment

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Stephen Ackerman, (845) 452-5863, on Friday, September 15, 2006.

The application has been amended as follows: CLAIMS 11-22 HAVE BEEN CANCELLED.

## Reasons for Allowance

3. Claims 1-10 are allowed.

The following is an examiner's statement of reasons for allowance:

This application is for a DESIGN AND FABRICATION METHOD FOR AN INSTACK STABILIZED SYNTHETIC STITCHED CPP GMR HEAD.

Claim 1 specifies a stitched in-stack stabilized CPP synthetic spin valve sensor, which

requires:

"a multilayer formation stitched onto said LBL, said formation being

characterized by a larger lateral cross section than said LBL and said formation

including: a synthetic exchange tri-layer formation."

The closest prior art of record, Lin et al. (US 6,747,852 B2) fails to fairly, teach, show or

suggest, by either anticipating or rendering obvious, the invention as set forth in the claims of the

instant application. Furthermore, a search made does not detect the combined claimed elements

as set forth in the pending claims. Additionally, the reasons for allowance of the claims over the

prior art of record is believed to be readily clear, self evident and apparent from the claim

language set forth in each of claim 1, when compared and contrasted with the prior art.

More particularly, the instant invention (as set forth in claim 1) provides a multilayer

formation stitched onto said LBL, said formation being characterized by a larger lateral cross

section than said LBL and said formation including: a synthetic exchange tri-layer formation.

None of the cited prior art of record disclose such a multilayer formation stitched onto said LBL.

said formation being characterized by a larger lateral cross section than said LBL and said

formation including: a synthetic exchange tri-layer formation as set forth in the manner, function

and relationship relative to other claimed structures as prescribed by the independent claims.

Specifically, Lin et al. teach a longitudinal bias stack 72, which overlies the MR sensor

52. The longitudinal biasing stack 72 includes a longitudinal pinned layer 74 and a longitudinal

pinning 76 deposited upon the longitudinal pinned layer 74 [col. 6, lines 7-11; Figures 5 and 6].

Lin et al. fail to show, teach or suggest a multilayer formation stitched onto said LBL, said

formation being characterized by a larger lateral cross section than said LBL and said formation

including: a synthetic exchange tri-layer formation as claimed in the present invention.

Therefore, these features, in combination with other features of claim 1, are not

anticipated by, nor made obvious over, the closest prior art of record of Lin et al. '852.

4. Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Conclusion

5. The prior art made of record and not relied upon that is considered pertinent to applicant's

disclosure has been annotated on PTO-492.

6. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Christopher R. Magee whose telephone number is (571) 272-

7592. The examiner can normally be reached on M-F, 8: 00 am-4: 30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, William Korzuch can be reached on (571) 272-7589. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2627

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Christopher R. Magee Patent Examiner

Art Unit 2627

September 15, 2006

crm

ANGEL CASTRO
PRIMARY EXAMINER